

# **LIGHTING OPTICAL DEVICE, EXPOSURE APPARATUS AND EXPOSURE METHOD**

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- **international:** **G03F7/20; H01L21/027; G03F7/20; H01L21/02; (IPC1-7): G03F7/20; H01L21/027**

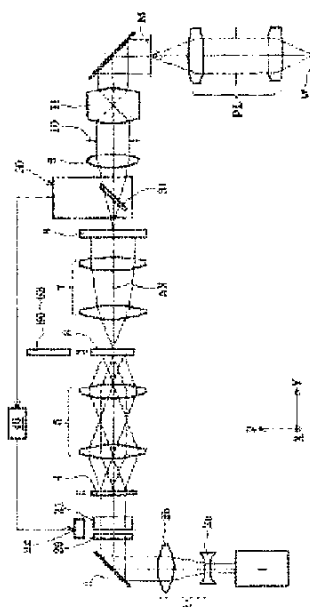
- **European:**

**Application number:** JP20030336870 20030929

**Priority number(s):** JP20030336870 20030929

## **Abstract of JP 2005108925 (A)**

**PROBLEM TO BE SOLVED:** To provide a lighting optical device which detects the state of polarization of illumination light, based on a comparatively simple and compact configuration. ; **SOLUTION:** The lighting optical device which illuminates a irradiated surface (M, W) with a light from a light source (1) is equipped with a beam splitter (31) which is arranged in an optical path between the light source and the irradiated surface, and takes out a reflected light (or transmitted light) in a state of polarization different from a state of polarization of an incident light; and a light intensity detector (33) for detecting the intensity of the reflected light (or transmitting light) taken out from the optical path by the beam splitter. The state of polarization of an incident light to the beam splitter is detected, based on the output of the light intensity detector. ;  
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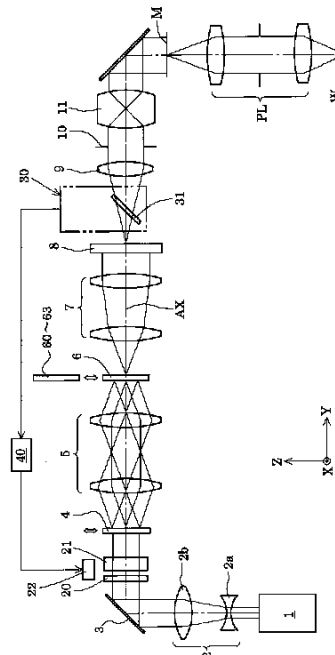
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